IPMAT ROHTAK – 2019

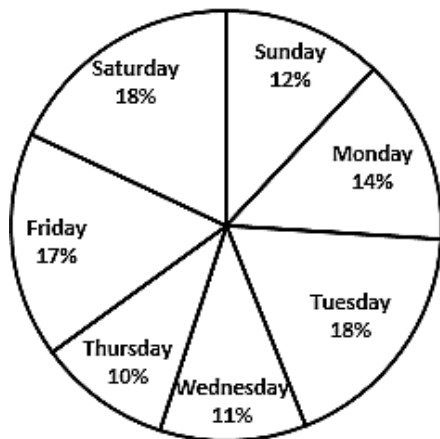## QUANTITATIVE ABILITY

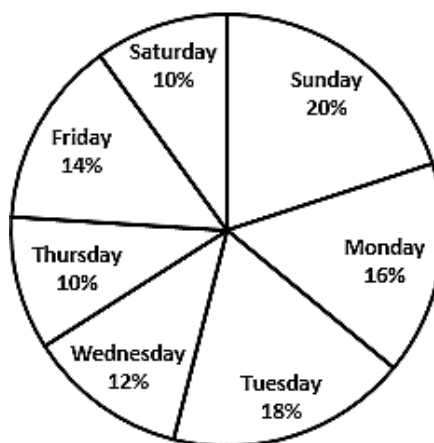**QUESTIONS: 40 (+4/–1)**   **TOTAL TEST TIME: 2 HRS**

Directions (Q.1-Q.5): Study the data given below and answer the following questions. The pie charts shown below shows the distance covered by a boat moving upstream and downstream indifferent days of a week. And the table shows the speed of stream in km/hr. in different days of a week.
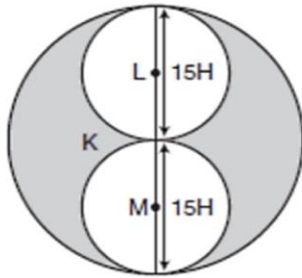

TOTAL DISTANCE COVERED DOWNSTREAM = 2400 KM

Sunday 12%, Monday 14%, Tuesday 18%, Wednesday 11%, Thursday 10%, Friday 17%, Saturday 18%

TOTAL DISTANCE COVERED UPSTREAM = 4800 KM

Saturday 10%, Sunday 20%, Monday 16%, Tuesday 18%, Wednesday 12%, Thursday 10%, Friday 14%

Day	Speed of Stream (km/hr)
Monday	5
Tuesday	2
Wednesday	6
Thursday	-
Friday	1
Saturday	-
Sunday	3

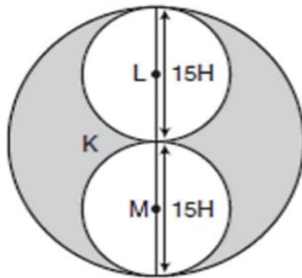1. If the time taken by boat to travel upstream on Wednesday is 6/7 times than the time taken to travel downstream on Monday and the speed of boat in still water on Monday is 15 kmph then find the speed of boat in still water on Wednesday? (speed of boat in still water is different for different days)
   (a) 52 kmph   (b) 62 kmph   (c) 42 kmph   (d) None of these

2. If the time taken by boat to travel upstream on Monday is $27\frac{1}{5}$ hrs. more than the time taken by it to travel downstream on the same day, then find the speed of boat in still water on Monday ?(speed of boat in still water is same in upstream as in downstream)
   (a) 25 kmph   (b) 18 kmph   (c) 20 kmph   (d) 15 kmph

3. If the speed of boat in still water on Saturday was 27 km/hr and the speed of boat in still water on Wednesday was $66\frac{2}{3}$% more than that of Saturday and time taken to travel upstream on Wednesday is $\frac{16}{13}$ times than time taken by it to travel downstream on Saturday, then find the speed of stream (in kmph) on Saturday?
   (a) 2   (b) 4   (c) 9   (d) 8

4. The speed of boat in still water on Saturday was 21 km/hr. and that on Sunday was $28\frac{4}{7}$% more than that on Saturday, if the time taken by boat to travel upstream on Saturday is $2\frac{1}{2}$ times the time taken to travel downstream on Sunday, then find the time taken by the boat to cover a distance of 125 km upstream on Saturday?
   (a) 6 hrs 45 min   (b) 2 hrs 45 min   (c) 4 hrs 30 min   (d) 6 hrs 15 min

5. If the time taken by boat to travel upstream on Friday is 30 hours more than the time taken by it to travel downstream on Wednesday and the speed of boat in still water on Friday is 17 kmph, then find the upstream speed of boat on Wednesday? (speed of boat in still water is different on different days)
(a) 27 kmph　　　(b) 22 kmph　　　(c) 20 kmph　　　(d) None of these

6. A Container contains X litres of Milk. A thief stole 50 litres of Milk and replaced it with the same quantity of water. He repeated the same process further two times. And thus, Milk in the container is only X-122 litres. Then what is the quantity of water in the final mixture?
(a) 122 Litre　　　(b) 124 Litre　　　(c) 128 Litre　　　(d) 250 Litre

7. Veena has to pay Rs. 2460 to Sita, 5 Months later at 6% SI per annum, and Gita has to pay Sita same amount at 7.5% SI per annum after certain months. If both took the same amount of loan from Sita then Gita paid loan after how many months?
(a) 3 Months　　　(b) 4 Months　　　(c) 6 Months　　　(d) 12 Months

8. Use the figure below to answer questions 8 through 9.

What is the area of the shaded figure?
(a) 56.25π square feet　　　　　(b) 112.5π square feet
(c) 225π square feet　　　　　(d) 337.4π square feet

9. Use the figure below to answer questions 8 through 9.

What is the ratio of the area of Circle M and the area of Circle K?
(a) 1 : 8　　　(b) 1 : 4　　　(c) 1 : 2　　　(d) 1 : 1

10. If x% of y is equal to z then what percentage of z is x?
(a) $\frac{y^2}{100}$　　　(b) $\frac{x^2}{100}$　　　(c) $\frac{100^2}{y}$　　　(d) $\frac{100^2}{x}$

11. Train A takes 45 minutes more than train B to travel 450 km. Due to engine trouble, speed of train B falls by a quarter. So it takes 30 minutes more than Train A to complete the same journey. Find the speed of Train A.
(a) 120 km/hr　　　(b) 110 km/hr　　　(c) 100 km/hr　　　(d) 90 km/hr

12. One Trader calculates the percentage of profit on the buying price and another calculates on the selling price. When their selling prices are same, then the difference of their actual profit is Rs 85 and both claim to have made 20% profit. What is the selling price for each?
(a) Rs 3000　　　(b) Rs 2550　　　(c) Rs 2800　　　(d) Rs 4000

13. Due to increase of 20% in the price of eggs, 2 eggs less are available for Rs 24. The present rate of eggs per dozen is
(a) Rs 28.8/dozen　　　(b) Rs 24.8/dozen　　　(c) Rs 25.8/dozen　　　(d) Rs 30/dozen
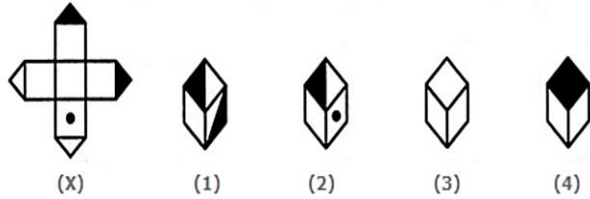
14. $\sin\left(\frac{13\pi}{6}\right) = ?$

(a) $\frac{1}{2}$ (b) $\frac{1}{\sqrt{2}}$ (c) $\frac{1}{\sqrt{3}}$ (d) $\sqrt{3}$

15. Fruits were purchased for Rs 350. 9 boys ate $\frac{3}{5th}$ of them in 2 hours. 6 boys feel their stomach as full so do not eat further. In how many hours the remaining fruits will get finished by remaining boys?

(a) 2 hours   (b) 3 hours   (c) 5 hours   (d) 4 hours

16. If minimum value of $f(x) = x^2 + 2bx + 2c^2$ is greater than the maximum value of $g(x) = -x^2 - 2cx + b^2$, then for real value of x.

(a) $|c| > \sqrt{2}|b|$ (b) $\sqrt{2}|c| > b$ (c) $0 < c < \sqrt{2}b$ (d) no real value of a

17. The set of all real numbers x for which $x^2 - |x + 2| + x > 0$, is

(a) $(-\infty, -2) \cup (2, \infty)$ (b) $(-\infty, -\sqrt{2}) \cup (\sqrt{2}, \infty)$

(c) $(-\infty, -1) \cup (1, \infty)$ (d) $(\sqrt{2}, \infty)$

18. What should come at the place of question mark ?

46080, 3840, 384, 48, 8, 2, ?

(a) 1   (b) $\frac{1}{64}$ (c) $\frac{1}{8}$ (d) None of these

19. A room has floor size of 15*6sq.cm. What is the height of the room, if the sum of the areas of the base and roof is equal to the sum of the areas of the four walls ?

(a) 1.12cm   (b) 3.24cm   (c) 4.29cm   (d) 2.5cm

20. The sum of third and ninth term of an A.P is 8. Find the sum of the first 11 terms of the progression.

(a) 44   (b) 22   (c) 19   (d) None of the above

21. Given A $=2^{65}$ and B $= (2^{64} + 2^{63} + 2^{62} + ... + 2^0)$, which of the following is true?

(a) B is 2^{64} larger than A   (b) A and B are equal

(c) B is larger than A by 1   (d) A is larger than B by 1

22. A line from center to circumference of a circle is known as

(a) diameter   (b) radius   (c) area   (d) midpoint

23. A bag contains 4 blue, 5 white and 6 green balls. Two balls are drawn at random. What is the probability that one ball is white?

(a) $\frac{10}{21}$ (b) $\frac{1}{2}$ (c) $\frac{3}{4}$ (d) $\frac{2}{35}$

24. Two pipes P and Q can fill a tank in 20hrs and 25hrs respectively while a third pipe R can empty the tank in 30hrs. If all the pipes are opened together for 10hrs and then pipe R is closed then in what time the tank can be filled.

(a) $\frac{400}{23}$ hrs   (b) $\frac{400}{27}$ hrs   (c) $\frac{200}{23}$ hrs   (d) $\frac{200}{27}$ hrs

25. Given ratio are a : b = 2 : 3, b : c = 5 : 2, c : d = 1 : 4. Find a : b : c.

(a) 2 : 3 : 6   (b) 4 : 5 : 6   (c) 10 : 15 : 6   (d) 1 : 5 : 7

26. If there are Rs 495 in a bag in denominations of one-rupee, 50 paisa and 25 paisa coins, which are in the ratio 1 : 8 : 16. How many 50 paisa coins are there in the bag?

(a) 50   (b) 220   (c) 440   (d) None of these

27. What decimal of an hour is a second?

(a) .00028   (b) .00027   (c) .00026   (d) .00025

28. What will be vulgar fraction of 0.0056?

(a) 7/1150   (b) 7/1175   (c) 7/1250   (d) 7/1275

29. One-fifth of a number is equal to $\frac{5}{8}$th of another number. If 35 is added to the first number, it becomes four times of the second number. Find the second number.
(a) 39
(b) 70
(c) 40
(d) 25

30. If * = +, / = -, + = *, - = / then 43 * 561 + 500 - 100 / 10 = ?
(a) 3211
(b) 2388
(c) 2883
(d) 2838

31. A circle is inscribed in an equilateral triangle of side 24 cm, touching its sides. What is the area of the remaining portion of the triangle?
(a) $144\sqrt{3}$ - 48π cm2
(b) $121\sqrt{3}$ - 36 π cm2
(c) $144\sqrt{3}$ - 36 π cm2
(d) $121\sqrt{3}$ - 48 π cm2

32. A clock strikes 4 taking 9 seconds. In order to strike 12 at the same rate, the time taken is
(a) 33 seconds
(b) 30 seconds
(c) 36 seconds
(d) 27 seconds

33. John's present age is one fourth of his father's age two years ago. John's father's age will be twice Raman's age after 10 years. If Raman's 12th birthday was celebrated 2 years ago, then what is John's present age?
(a) 5 years
(b) 7 years
(c) 9 years
(d) 11 years

34. Raj invested Rs 76000 in a business. After few months Monty joined him and invests Rs 57000. At the end of the year, both of them share the profits at the ratio of 2:1. After how many months Monty joined Raj?
(a) 4 Months
(b) 7 Months
(c) 8 Months
(d) 12 Months

35. Work done by P in one day is double the work done by Q in one day and work done by Q in one day is thrice the work done by R in one day. If P, Q and R together can complete the work in 30 days then in how many days P alone can do the work?
(a) 52 days
(b) 42 days
(c) 30 days
(d) 50 days

36. A boatman goes 2 km against the current of the stream in 1 hour and goes 1 km along the current in 10 minutes. How long will it take to go 5 km in stationary water?
(a) 40 minute
(b) 1 hour
(c) 1 hr 15 min
(d) 1 hr 30 min

37. Simplification: $25^{(2.7)} \times 5^{(4.2)} \div 5^{(5.4)}$ = ?
(a) 5^4
(b) $5^{(3.2)}$
(c) $5^{(4.1)}$
(d) $5^{(4.2)}$

38. Simplification: 18800 / 470 / 20
(a) 1
(b) 2
(c) 3
(d) 4

39. Find the HCF of $\frac{2}{3}, \frac{4}{6}, \frac{8}{27}$
(a) $\frac{2}{27}$
(b) $\frac{8}{3}$
(c) $\frac{2}{3}$
(d) $\frac{8}{27}$

40. If $\log 2$, $\log(2^x-1)$ and $\log(2^x+3)$ are in A.P, then x is equal to _____
(a) $\frac{5}{2}$
(b) $\log_2 5$
(c) $\log_3 5$
(d) $\frac{3}{2}$

LOGICAL REASONING

QUESTIONS: 40 (+4/–1)

41. Choose the box that is similar to the box formed from the given sheet of paper (X).

(a) 1 and 2 only   (b) 2 and 4 only   (c) 2 and 3 only   (d) 1 and 4 only

42. Pointing to Manju, Raju said, "The son of her only brother is the brother of my wife". How is Manju related to Raju?
    (a) Mother's sister   (b) Grandmother
    (c) Mother-in-law   (d) Sister of father-in-law

Questions (Q.43 – Q.44): a pair of words is given, followed by four pairs of words as alternatives. The candidate is required to choose the pair in which the words bear the sane relationship to each other as the words of the given pair bear.

43. **Arrows: Quiver**
    (a) Fear: Tremble   (b) Money: Bank
    (c) Sound: Music   (d) Coin: Mint

44. **Embarrass: Humiliate**
    (a) Enquire: Ask   (b) Embezzle: Peculate
    (c) Gamble: Investment   (d) Annoy: Exasperate

Direction: (Q.45 – Q.47) Considering given statements as true, select a logical conclusion based on the given statements.

45. **Statements:**
    No tree is a flower Some trees are fruits
    Conclusions:
    (I) Fruits that are trees are not flowers.
    (II) No fruit is a flower.
    (a) Only conclusion I follows   (b) Only conclusion II follows
    (c) Either conclusion I or II follows (d) Neither conclusion I nor II follow

46. **Statements:**
    Lady's Finger is tastier than cabbage Cauliflower is tastier than Lady's Finger Cabbage is not tastier than peas
    (a) Peas are as tasty as lady's finger   (b) Peas are as tasty as cauliflower and lady's finger
    (c) Peas is not tastier than lady's finger   (d) Cauliflower is tastier than cabbage

47. **Statements:** Some A are B. Some C are A.
    Conclusions:
    (I) Some C are B.
    (II) Some B are A.
    (a) Only conclusion I follows   (b) Only conclusion II follows
    (c) Either conclusion I or II follows (d) Neither conclusion I nor II follows

Directions (Q.48-Q.52): Study the following information carefully and answer the given questions.
Seven friends P, Q, R, S, T, U and V are sitting in a straight line which is composed with eight seats, some of them are facing north and some of them are facing south. Each of them likes different colours viz., Blue, White, Black, Yellow, Orange, Red and Purple. All the above information is not necessarily in the same order.
Three seats are there between T and P and both of them are not sitting at the extreme ends. The one who likes white colour is not sitting adjacent to the vacant seat. The one who likes red is an immediate neighbor of the one who likes White. The number of persons between U and Q is one less than the number of persons between Q and S. The only

neighbor of V sits third to the left of R. U is facing same direction as T and opposite as Q. The immediate neighbour of V is not facing north direction. The one who likes Orange sits third to the left of T who likes neither blue nor black. The persons sit at the extreme ends are facing opposite direction. The number of seats between the one who likes Blue and Yellow is double than the number of persons between the one who likes Red and Black. P neither likes Red nor likes Black. The one who likes Yellow is not facing the same direction as T. The persons sit adjacent to the vacant seat are facing same direction as their neighbor.

48. Who sits third to the left of the one who sits second to the left of the person likes Purple colour?
   (a) The person who likes Black colour   (b) The person who likes White colour
   (c) The person who likes Blue colour   (d) The person who likes Yellow colour

49. How many persons sit between the person who likes Red colour and the vacant seat?
   (a) Two   (b) Six   (c) Three   (d) None

50. If the vacant seat is related to V and T in a certain way and in a same way P is related to U and Q then which of the following is related U?
   (a) R and T   (b) R and P   (c) P and U   (d) U and V

51. Which of the following persons are sit at the extreme ends of the line?
   (a) The person who likes Purple and Black colour
   (b) The person who likes White and Blue colour
   (c) The person who likes Blue and Yellow colour
   (d) The person who likes Red and Orange colour
   (e) The person who likes Orange and Black colour

52. If the vacant seat is occupied with N then who among the following persons is sitting second to the left of Q?
   (a) R   (b) T   (c) P   (d) N

53. Choose the alternative which closely resembles the mirror image of the given combination.
   TARAIN1014A
   (1) A⊅I0ΓИIАЯAƬ   (2) AΓ0Γ⊅ИIАЯAƬ
   (3) AΓ0Γ⊅ƬАЯАIИ   (4) A⊅IΓ0ΓИIАЯAƬ
   (a) 1   (b) 2   (c) 3   (d) 4

Direction (Q.54 – Q.56): Five plays A, B, C, D and E are to be staged from Monday to Friday of a week. On each day, only one play will be staged. D or E should not be either the first or last to be staged. E should be immediately followed by C. B should be staged immediately after D. One play is staged between A and B.

54. Which is the first play to be staged?
   (a) A   (b) B   (c) C   (d) Cannot be determined

55. Which of the following is the correct sequence of staging all the plays?
   (a) A D B E C   (b) A E C D B   (c) B D A E C   (d) D B E C A

56. Which play was staged on Wednesday?
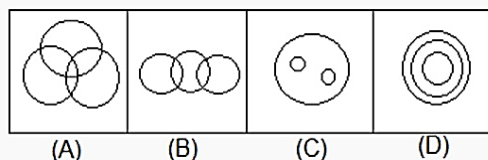   (a) A   (b) B   (c) Either B or C   (d) Cannot be determined

Direction (Q.57 – Q.58): Each Question given below has a problem and two statements numbered I and II giving certain information. You have to decide if the information given in the statements is sufficient for answering the problem.

57. Who is C's partner in a game of cards involving four players A, B, C and D?
   I.   D is sitting opposite to A.
   II. B is sitting right of A and left of D.
   (a) if the data in statement I alone are sufficient to answer the question;
   (b) if the data in statement II alone are sufficient to answer the question;
   (c) if the data either in I or II alone are sufficient to answer the question;
   (d) if the data even in both the statements together are not sufficient to answer the question;

58. What day is the fourteenth of a given month?
   I.   The last day of the month is a Wednesday.
   II. The third Saturday of the month was seventeenth.
   (a) if the data in statement I alone are sufficient to answer the question;
   (b) if the data in statement II alone are sufficient to answer the question;
   (c) if the data either in I or II alone are sufficient to answer the question;
   (d) if the data even in both the statements together are not sufficient to answer the question;

59. In a certain code 'SEQUENCE' is coded as 'FDOFVRFT. How is 'CHILDREN' coded in that code?
   (a) OFESJMID   (b) OFSEMJID   (c) OFSEJIMD   (d) OFSEJMID

60. In a code language, Elephant is told as Jackal, Jackal is told as Monkey, Monkey is told as Dog, Dog is told as Lion, Lion is told as Goat, Goat is told as Mouse, then who will be the king of jungle?
   (a) Mouse   (b) Goat   (c) Lion   (d) Jackal

Direction (Q.61 – Q.62): In each question below is given a statement followed by two assumptions numbered I and II. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

61. **Statement:** It is desirable to put the child in school at the age of 5 or so.
   Assumptions:
   I.   At that age the child reaches appropriate level of development and is ready to learn.
   II. The schools do not admit children after six years of age.
   (a) Only assumption I is implicit   (b) Only assumption II is implicit
   (c) Either I or II is implicit   (d) Neither I nor II is implicit

62. **Statement:**
   "In order to bring punctuality in our office, we must provide conveyance allowance to our employees." - In charge of a company tells Personnel Manager.
   Assumptions:
   I.   Conveyance allowance will not help in bringing punctuality.
   II. Discipline and reward should always go hand in hand.
   (a) Only assumption I is implicit   (b) Only assumption II is implicit
   (c) Either I or II is implicit   (d) Neither I nor II is implicit

63. A man walks 5 km toward south and then turns to the right. After walking 3 km he turns to the left and walks 5 km. Now in which direction is he from the starting place?
   (a) West   (b) South   (c) North-East   (d) South-West

64. Find the missing number in the given series 2, 7, 10, 22, 18, 37, 26, ?
   (a) 52   (b) 42   (c) 62   (d) 46

65. Look at this series: 544, 509, 474, 439, ... What number should come next?
   (a) 414   (b) 404   (c) 445   (d) 420

66. Which of the following Venn diagrams given below correctly represents the students who learn law & music, music & dance, law & dance, and law, music, & dance?

   (a) A   (b) B   (c) C   (d) D

Direction (Q.67-Q.68): In each question below is given a statement followed by two conclusions numbered I and II. You have to assume everything in the statement to be true, then consider the two conclusions together and decide which of them logically follows beyond a reasonable doubt from the information given in the statement.

67. **Statements:** In a one day cricket match, the total runs made by a team were 200. Out of these 160 runs were made by spinners.
    Conclusions:
    I.   80% of the team consists of spinners.
    II. The opening batsmen were spinners.
    (a) Only conclusion I follows   (b) Only conclusion II follows
    (c) Either I or II follows   (d) Neither I nor II follows

68. **Statements:** The old order changed yielding place to new.
    Conclusions:
    I.   Change is the law of nature.
    II. Discard old ideas because they are old.
    (a) Only conclusion I follows   (b) Only conclusion II follows
    (c) Either I or II follows   (d) Neither I nor II follows

Direction (Q.69 – Q.71): Given an input line a machine generates pass codes step by step following certain rules as illustrated below.

Step									
Step	I	95	13	67	84	76	18	38	78
Step	II	95	84	13	67	76	18	38	78
Step	III	95	84	78	13	67	76	18	38
Step	IV	95	84	78	76	13	67	18	38
Step	V	95	84	78	76	67	13	18	38
Step	VI	95	84	78	76	67	38	13	18
Step	VII	95	84	78	76	67	38	18	13

69. Which number comes in between 1st and 3rd number from left of 6th step of input?
    (a) 84   (b) 13   (c) 67   (d) 18

70. Which number comes after 18 in the 4th step?
    (a) 95   (b) 76   (c) 38   (d) 78

71. Which number comes in between 3rd and 5th number from left of 7th step of input?
    (a) 84   (b) 13   (c) 67   (d) 76

72. Tanya's grandfather was 8 times older to her 16 years ago. He would be 3 times of her age 8 years from now. What was ratio of ages of Tanya and her grandfather 8 years ago.
    (a) 11 : 50   (b) 11 : 51   (c) 11 : 53   (d) 11 : 54

73. A clock is such that it loses 4 minutes each day. The clock is set right on February 25, 2008 at 2 p.m. How many minutes should be added to get the right time when the clock shows 9 am on 3rd March, 2008?
    (a) 9780/359   (b) 9340/357   (c) 9120/329   (d) 8760/269

Direction (Q.74 – Q.75): Study the following information carefully and answer the given questions.

74. **Statements:** M = V; R ≥ S; V < S; M > A; R ≤ U
    Conclusions:
    I.   U > S
    II. R = S
    III. R > S
    (a) Only I is true   (b) Only II is true
    (c) Only III is true   (d) Either II or III is true

75. **Statements:** A < P = C ≥ D; S > U ≤ B < A; C < Q > S ≥ V
    Conclusions:
    I.   U > V
    II. B < C
    III. Q > D
    (a) Only I is true   (b) Only II is true
    (c) Only I and III is true   (d) Only II and III is true

76. **Fact 1:** Most stuffed toys are stuffed with beans.
    Fact 2: There are stuffed bears and stuffed tigers.
    Fact 3: Some chairs are stuffed with beans.
    If the first three statements are facts, which of the following statements must also be a fact?
    I: Only children's chairs are stuffed with beans.
    II: All stuffed tigers are stuffed with beans.
    III: Stuffed monkeys are not stuffed with beans.
    (a) I only   (b) II only
    (c) II and III only   (d) None of the statements is a known fact.

77. If Atul finds that he is twelfth from the right in a line of boys and fourth from the left, how many boys should be added to the line such that there are 28 boys in the line?
    (a) 12   (b) 13   (c) 14   (d) 20

Direction (Q.78 – Q.79): Each Question given below has a problem and two statements numbered I, II and III giving certain information. You have to decide if the information given in the statements is sufficient for answering the problem.

78. Five persons - A, B, C, D and E are sitting in a row. Who is sitting in the middle?
    I.   B is between E and C
    II. B is to the right of E
    III. D is between A and E.
    (a) I and II together.   (b) II and III together.
    (c) I and III together.   (d) I, II and III together.

79. In which year was Sanjay born?
    I.   Sanjay is six years older than Gopal.
    II. Gopal's brother was born in 1982.
    III. Sanjay's brother is two years younger than Gopal's brother who was eight years younger.
    (a) I and II together.   (b) II and III together.
    (c) I and III together.   (d) I, II and III together.

80. In a certain code IMTITJU is written as TMIIUJT. How is TEMREMP written in that code?
    (a) METERPM   (b) METRPME   (c) ETRMMEP   (d) MTERPME

ENGLISH LANGUAGE

QUESTIONS: 40 (+4/–1)

Directions (Q.81 –Q.83): In the following questions choose the word which is the exact OPPOSITE of the given words.

81. **ABOMINATE:**
(a) gratify (b) esteem (c) console (d) Support

82. **ABHOR**
(a) inspire (b) credit (c) improve (d) greatly admire

83. **ENORMOUS**
(a) Soft (b) Average (c) Tiny (d) Weak

Direction (Q.84 – Q.86): In the following the questions choose the word which best expresses the meaning of the given word.

84. **IMPROMPTU**
(a) Offhand (b) Unimportant (c) Unreal (d) Effective

85. **WRETCHED**
(a) Poor (b) Foolish (c) Insane (d) Strained

86. **ERRONEOUS**
(a) digressive (b) confused (c) impenetrable (d) Incorrect

Passage (Q.87-Q.90): Read the passage below and answer the questions that follow:
Harold a professional man who had worked in an office for many years had a fearful dream. In it, he found himself in a land where small slug-like animals with slimy tentacles lived on people's bodies. The people tolerated the loathsome creatures because after many years they grew into elephants which then became the nation's system of transport, carrying everyone wherever he wanted to go. Harold suddenly realised that he himself was covered with these things, and he woke up screaming. In a vivid sequence of pictures this dream dramatized for Harold what he had never been able to put in to words; he saw himself as letting society feed on his body in his early years so that it would carry him when he retired. He later threw off the "security bug" and took up free-lance work.

87. In his dream Harold found the loathsome creatures
(a) in his village (b) in his own house (c) in a different land (d) in his office

88. Which one of the following phrases best helps to bring out the precise meaning of 'loathsome creatures'?
(a) Security bug and slimy tentacles (b) Fearful dream and slug-like animals
(c) Slimy tentacles and slug-like animals (d) slug-like animals and security bug

89. The statement that 'he later threw off the security bug' means that
(a) Harold succeeded in overcoming the need for security
(b) Harold stopped giving much importance to dreams
(c) Harold started tolerating social victimisation
(d) Harold killed all the bugs troubled him

90. The passage talks about how he stopped being bothered about the need for security as "in a vivid sequence of pictures this dream dramatized for Harold what he had never been able to put in to words; he saw himself as letting society feed on his body in his early years so that it would carry him when he retired." This he later on threw off.
Harold's dream was fearful because
(a) it brought him face to face with reality
(b) it was full of vivid pictures of snakes
(c) he saw huge elephant in it
(d) in it he saw slimy creatures feeding on people's bodies

Direction (Q.91-Q.93): an incomplete statement (Stem) followed by fillers is given. Pick out the best one which can complete incomplete stem correctly and meaningfully.

91. **His appearance is unsmiling but ......**
    (a) his heart is full of compassion for others
    (b) he looks very serious on most occasions
    (c) people are afraid of him
    (d) he is uncompromising on matters of task performance

92. In order to help the company attain its goal of enhancing profit, all the employees ......
    (a) urged the management to grant paid leave
    (b) appealed the management to implement new welfare schemes
    (c) voluntarily offered to work overtime with lucrative compensation
    (d) voluntarily offered to render additional services in lieu of nothing

93. The manners and _____ of the nouveau riche is a recurrent _____ in the literature.
    (a) style, motif   (b) morals, story
    (c) wealth, theme   (d) morals, theme

Passage (Q.94-Q.96): In questions below, each passage consists of six sentences. The first and sixth sentence are given in the beginning. The middle four sentences in each have been removed and jumbled up. These are labeled as P, Q, R and S. Find out the proper order for the four sentences.
S1: The future beckons to us.
P: In fact we have hard work ahead.
Q : Where do we go and what shall be our endeavour?
R : We shall also have to fight and end poverty, ignorance and disease. S : It will be to bring freedom and opportunity to the common man.
S6: There is no resting for any one of us till we redeem our pledge in full.

94. The Proper sequence should be:
    (a) PSRQ   (b) QPSR   (c) QSRP   (d) SRPQ

95. S1: I had halted on the road.
    P: As soon as I saw the elephant I knew I should not shoot him.
    Q : It is a serious matter to shoot a working elephant.
    R : I knew that his 'must' was already passing off.
    S : The elephant was standing 8 yards from the road.
    S6: I decided to watch him for a while and then go home. The Proper sequence should be:
    (a) SPQR   (b) PQSR   (c) RQPS   (d) SRPQ

96. S1 : A noise started above their heads.
    P: But people did not take it seriously.
    Q : That was to show everyone that there was something wrong
    R : It was a dangerous thing to do.
    S : For, within minutes the ship began to sink.
    S6: Nearly 200 lives were lost.
    (a) QRPS   (b) QPRS   (c) RPQS   (d) RQSP

Direction (Q.97 – Q.98): Each question consist of two words which have a certain relationship to each other followed by four pairs of related words. Select the pair which has the same relationship.

97. **TEN:DECIMAL**
    (a) seven : septet   (b) four : quartet
    (c) two : binary   (d) five : quince

98. Paw : Cat then Hoof :?
    (a) Lion   (b) Horse   (c) Lamb   (d) Elephant

Direction (Q.99 – Q.100): Some proverbs/idioms are given below together with their meanings. Choose the correct meaning of proverb/idiom

99. To make clean breast of
    (a) To gain prominence
    (b) To praise oneself
    (c) To confess without of reserve
    (d) To destroy before it blooms

100. To have an axe to grind
    (a) A private end to serve
    (b) To fail to arouse interest
    (c) To have no result
    (d) To work for both sides

Directions (Q.101 – Q.102): Read each sentence to find out whether there is any grammatical error in it. The error, if any, will be in one part of the sentence. The letter of that part is the answer. If there is no error, the answer is 'no error'.(Ignore the errors of punctuation, if any).

101. Solve as per the direction given above
    (a) When I were a newspaper journalist
    (b) I always relied on the news editor and
    (c) the subs to put things right.
    (d) no errors

102. Solve as per the direction given above
    (a) I could count on one
    (b) hand the things
    (c) I know about my friend.
    (d) no errors

103. **Statement:** The average family income in the metros has increased today as compared to earlier, as in most families these days husbands and wives both are working. Which of the following inferences cannot be drawn from the above statement?
    (a) Wives earn more than their husbands today.
    (b) It was less prevalent for the spouse to work earlier than today.
    (c) The family income level was lower a few years ago.
    (d) More husbands and wives are working today as compared to last few years.

104. Should powerful nations attack relatively weaker nations which pose probable danger to world peace?
    Arguments:
    1. Yes. War is justified for the noble purpose of peacekeeping.
    2. No. War/violence should never be resorted to.
    (a) If only 1 is implicit
    (b) It only 2 is implicit
    (c) If either assumption 1 or 2 is implicit
    (d) If neither assumption 1 nor 2 is implicit

105. Answer the following Homonyms _____ is the most important city of a country.
    (a) Capitol
    (b) Capetol
    (c) Capital
    (d) Capitalisation

106. Answer the following Homonyms which of these expresses distance?
    (a) Farther
    (b) Father
    (c) Further
    (d) Ferther

Direction (Q.107 - Q.108): In questions given below, a part of the sentence is italicised and underlined. Below are given alternatives to the italicised part which may improve the sentence. Choose the correct alternative. In case no improvement is needed, option 'D' is the answer.

107. There is no more room for you in this compartment.
    (a) there is no more seat
    (b) there is no more space
    (c) there is no more accommodation
    (d) No improvement

108. If he would have tried he would have succeeded.
    (a) is tried
    (b) was tried
    (c) had tried
    (d) No improvement

Direction (Q.109 – Q.110): In each of the following questions, a word has been used in sentences in THREE different ways. Choose the option corresponding to the sentence in which the usage of the word is CORRECT or APPROPRIATE.

109. **CONFLATE**
    (I)   I was able to conflate the two processes into one, blending it down into a solid formula.
    (II) The bag is divided into conflate compartments.
    (III) The dogs started to snarl at each other so I had to conflate them.
    (a) Only (I)   (b) Only (II)
    (c) Only (III)   (d) Both (I) and (II)

110. RARE
    (I)   The coin was a rare edition and was not found in many collections around the world.
    (II) Diagnosed with a rare form of bone cancer, the patient's doctors knew little about his unique condition.
    (III) Standing in the rare of the long line, the family could barely see the entrance to the theatre.
    (a) Only (I)   (b) Only (II)
    (c) Only (III)   (d) Both (I) and (II)

Passage (Q.111-Q.117): Read the passage below and answer the questions that follow:
Concussions are brain injuries that occur when a person receives a blow to the head, face, or neck. Although most people who suffer a concussion experience initial bouts of dizziness, nausea, and drowsiness, these symptoms often disappear after a few days. The long-term effects of concussions, however, are less understood and far more severe.

Recent studies suggest that people who suffer multiple concussions are at significant risk for developing chronic traumatic encephalopathy (CTE), a degenerative brain disorder that causes a variety of dangerous mental and emotional problems to arise weeks, months, or even years after the initial injury. These psychological problems can include depression, anxiety, memory loss, inability to concentrate, and aggression. In extreme cases, people suffering from CTE have even committed suicide or homicide. The majority of people who develop these issues are athletes who participate in popular high-impact sports, especially football. Although new sports regulations and improvements in helmet technology can help protect players, amateur leagues, the sports media, and fans all bear some of the responsibility for reducing the incidence of these devastating injuries. Improvements in diagnostic technology have provided substantial evidence to link severe and often fatal psychological disorders to the head injuries that players receive while on the field.

Recent autopsies performed on the brains of football players who have committed suicide have shown advanced cases of CTE in every single victim. In response to the growing understanding of this danger, the National Football League (NFL) has revised its safety regulations. Players who have suffered a head injury on the field must undergo a concussion sideline assessment a series of mental and physical fitness tests before being allowed back in the game.

In an effort to diminish the amount of head and neck injuries on the field, NFL officials began enforcing stricter penalty calls for helmet-to-helmet contact, leading with the head, and hitting a defenceless player. Furthermore, as of 2010, if a player's helmet is accidentally wrenched from his head during play, the ball is immediately whistled dead. It is hoped that these new regulations, coupled with advances in helmet design, will reduce the number of concussions, and thus curb further cases of CTE. Efforts by the NFL and other professional sports leagues are certainly laudable; we should commend every attempt to protect the mental and physical health of players. However, new regulations at the professional level cannot protect amateur players, especially young people.

Fatal cases of CTE have been reported in victims as young as 21. Proper tackling form using the arms and shoulders to aim for a player's midsection should be taught at an early age. Youth, high school, and college leagues should also adopt safety rules even more stringent than those of the NFL. Furthermore, young athletes should be educated about the serious dangers of head injuries at an early age. Perhaps the most important factor in reducing the number of traumatic brain injuries, however, lies not with the players, the coaches, or the administrators, but with the media and fans.

Sports media producers have become accustomed to showcasing the most aggressive tackles and the most intense plays. NFL broadcasts often replay especially violent collisions while the commentators marvel at the players physical prowess. Some sports highlights television programs even feature weekly countdowns of the hardest hits. When the media exalts such dangerous behavior, professionals are rewarded for injuring each other on the field and amateurs

become more likely to try to imitate their favorite NFL athletes. Announcers, commentators, television producers, and sportswriters should engage in a collective effort to cease glorifying brutal plays. In turn, fans should stop expecting their favorite players to put their lives on the line for the purposes of entertainment. Players must not be encouraged to trade their careers, their health, their happiness, and even their lives for the sake of a game.

111. Based on information in the passage, it can be inferred that all of the following statements are true except
    (a) tackling is not always dangerous; however, players who use improper tackling form may injure others
    (b) scientists have established a definitive link between players who die untimely deaths and the onset of CTE
    (c) NFL officials have done little to address the problem of CTE
    (d) athletes who are praised for exceptionally brutal hits are likely to continue engaging in such dangerous behavior

112. According to the passage, which of the following factors contribute(s) to the incidence of CTE in amateur players?
    I.   inconsistent application of safety regulations for all levels
    II. lack of education about the dangers of head injuries
    III. amateur players' desire to emulate professionals
    (a) l only   (b) II only   (c) I and II only   (d) II and III only

113. As used in paragraph 3, which is the best synonym for laudable?
    (a) praiseworthy   (b) ineffectual   (c) memorable   (d) Audacious

114. The author's tone in the final paragraph can best be described as
    (a) remorseful   (b) hopeless   (c) perplexed   (d) insistent

115. As used in the final paragraph, which is the best antonym for exalts?
    (a) mitigates   (b) venerates   (c) mollifies   (d) Expedites

116. In describing the sports media, the author emphasizes its
    (a) responsibility   (b) entertainment value
    (c) senselessness   (d) Danger

117. In the final paragraph, the author mentions sports highlights television programs as an example of how
    I.   the media glorifies violence
    II. amateurs learn to mimic professional athletes
    III. professional athletes gain approval
    (a) I only   (b) II only   (c) I and II only   (d) II and III only

Passage (Q.118-Q.120): Read the passage below and answer the questions that follow:
The ravages [of the storm] were terrible in America, Europe, and Asia. Towns were overthrown, forests uprooted, coasts devastated by the mountains of water which were precipitated on them, vessels cast on the shore, whole districts levelled by waterspouts, several thousand people crushed on land or drowned at sea; such were the traces of its (468), left by this devastating tempest.

118. What is the meaning of the word overthrown in the context of this passage?
    (a) surrendered   (b) devastated   (c) capitulated   (d) Yielded

119. What is the meaning of the word leveled as it is used in the passage?
    (a) razed   (b) marked   (c) spread   (d) Raised

120. Which word, if inserted in the blank, makes the most sense in the context of the passage?
    (a) Velocity   (b) Fury   (c) reward   (d) Benevolence